IUBMB Enzyme Nomenclature

EC 2.7.4.6

Common name: nucleoside-diphosphate kinase

Reaction: ATP + nucleoside diphosphate = ADP + nucleoside triphosphate

Other names: nucleoside 5'-diphosphate kinase; nucleoside diphosphate (UDP) kinase; nucleoside

diphosphokinase; nucleotide phosphate kinase; UDP kinase; uridine diphosphate kinase

Systematic name: ATP:nucleoside-diphosphate phosphotransferase

Comments: Many nucleoside diphosphates can act as acceptors, while many ribo- and deoxyribonucleoside triphosphates can act as donors.

Links to other databases: BRENDA, EXPASY, GTD, KEGG, WIT, CAS registry number: 9026-51-1

References:

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- 4. Krebs, H.A. and Hems, R. Some reactions of adenosine and inosine phosphates in animal tissues. *Biochim. Biophys. Acta* 12 (1953) 172-180.
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